(NM – 10) Phosphorus Management (Using the P Index Rating)

		Weighting Factor (Wt. F.) x Column Factor (0, 1, 2, 4 & 8) = P Index Points								
Si	Site	Ŧ.	None or	<u> </u>		Medium	High		Very	P
Characteristic		Wt.]	Very Low	Low					High	Index
			0	1 2		4		8	Pts.	
Soil Test P Level		1	V. Low	Low		Moderate	High		V. High	2.0
			< 8 ppm	8 - 15 ppm	8 - 15 ppm		> 23-30 ppm		> 30 ppm	
P (P2O5)			None							1.0
Appl. Rate		1	Applied			30 - 90 lbs/ac	> 90-150 lbs/ac		> 150 lbs/ac	
Organic P			None	Injected 3 - 6"		orp. Immediately	Incorporated > 3 ⁶		Surface	8.0
Appl. Method		1	Applied	below surface	b	efore planting	mo. before planting		<u>Applied</u>	
P Fertilizer			None			rp. Immediately Incorporated		> 3 ⁷	Surface	1.0
Appl. Method		1	Applied	Deeper than 2"	before planting		mo. before planting		Applied	
Edge of Field to			V. Low	Low Medium		High		V. High	0	
Stream/lake ¹		1.5	> 1000 ft.	> 500 - 1000 ft.	> 500 - 1000 ft. > 200 - 500 ft.		30-200 ft.		< 30 ft.	
Soil			V. Low	Low	Medium		High		V. High	1.5
Erosion ²		1.5	< 1 t/ac	<u>1 - 3 t/ac</u>	> 3 - 5 t/ac		> 5-15 t/ac		> 15 t/ac	
Runoff			Negligible							1.5
Class ³		1.5	& V. Low			Medium	High		V. High	
Irr. Erosion			Not ⁴	Tail water	QS > 10 for erosion		QS > 10 for erodible		QS > 6 for very	3.0
(see QS note)		1.5	Irrigated	Recovery or ⁵	1	<u>esistant soils</u>	soils		erodible soils	
Grazing			Not Only graze		Pasture < 30% Dry		Pasture 30-80% Dry		Pasture 80-100%	0
Management		0.5	<u>Grazed</u>	crop residue Ma		ter as supp. feed	feed Matter as supp. feed		D.M. as supp. feed	
Vegetative									No	0
	ffer	1.5	<u>> 100 ft.</u>	> 65 - 100 ft.		20 - 65 ft.	< 20 ft.		Buffer	
						QS Note: Q = flow rate of water introduced into the furrow				
	Index	P Ha	zard	P Application		(in gpm). S = furrow slope (ft/100 ft, %).				
l g	Pts.	Cl	ass	Classification		Q is multiplied by S: (e.g.: 5 gpm x $2\% = 10$).				
x ii	0 – 10	V. I	Low	N Based		(1) Proximity of Nearest Field			(4) or No Furrow Irrigation	
nde jcs	10 – 17	Lo	OW	N Based					QS < 6 for Very erodible soils	
P Index Classification	<u>17 – 27</u>		ed. <u>N Based</u>			(2) WEPS & RUSLE or QS < 10 for othe (3) refer to Runoff Class Table (6) or Surface Application <				
P las	27 – 37	Hi		ased (1.5x crop removal)		(which is based on % field slope &			or Surface Application < 3 Mo. before planting	
C	37 - 47			Based (at crop removal)				(<mark>7)</mark> o	or Surface Applied < 3 months	
	> 47	Exce	ssive N	o P application allowed				(,,	before planting	
Phosphorus Index Rating (Reference: NRCS Agronomy Technical Note 57) rudy garcia 2008										